1 VQE results Aer Estimator (No Shots)

		(Full Hamiltonian)	Harmonic Oscillator	$\Lambda = 32$	COYBLA Max 10K Iterations				
Ansatz	Tolerance	Converged runs	Mean iter	VQE min E.	Δ_{min}	VQE median E.	Δ_{median}	Exact	Time
RA r1 rl	1e−01	100/100	115	3.0284e−02	3.0284e−02	1.314e−01	1.314e−01	0e+00	00h 00m 30s
RA r1 rl	1e−02	100/100	282	2.3553e−04	2.3553e−04	1.775e−03	1.775e−03	-	00h 01m 09s
RA r1 rl	1e−03	100/100	479	2.6628e−06	2.6628e−06	2.1504e−05	2.1504e−05	-	00h 01m 51s
RA r1 rl	1e−04	100/100	741	5.29e−08	5.29e−08	2.0633e−07	2.0633e−07	-	00h 02m 37s
RA r1 rl	1e−05	100/100	1221	5.1676e−10	5.1676e−10	2.1431e−09	2.1431e−09	-	00h 04m 26s
RA r1 rl	1e−06	98/100	1517	5.774e−12	5.774e−12	2.5405e−11	2.5405e−11	-	00h 06m 03s
RA r1 rl	1e−07	98/100	1400	4.2188e−14	4.2188e−14	2.4e−13	2.4e−13	-	00h 05m 45s
RA r1 rl	1e−08	93/100	1687	1.0381e−14	1.0381e−14	8.854e−14	8.854e−14	-	00h 08m 30s
Ansatz	Tolerance	Converged runs	Mean iter	VQE min E.	Δ_{min}	VQE median E.	Δ_{median}	Exact	Time

Table 1